

## ABG83461: Glutathione Reductase (GR) Assay Kit

**Alternative Name :** EC 1.8.1.7, Glutathione reductase mitochondrial, GR, GSR, MGC78522

### Description

**Detection method :** Colorimetric

**Sample type :** Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate

**Assay type :** Enzyme activity

**Sensitivity :** > 0.1 mU/ml

**Range :** 0.1 mU/ml - 40 mU/ml

**Assay time :** 0h 40m

Glutathione Reductase Assay Kit (abg83461) is a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring GR activity in biological samples. In the assay, GR reduces GSSG to GSH, which reacts with 5, 5'-Dithiobis (2-nitrobenzoic acid) (DTNB) to generate TNB2- (yellow color,  $\lambda_{\text{max}} = 405 \text{ nm}$ ). The assay can detect 0.1-40 mU/ml GR in various samples.

Glutathione Reductase (GR, EC 1.8.1.7) catalyzes the NADPH-dependent reduction of oxidized glutathione (GSSG) to reduced glutathione (GSH), which plays an important role in the GSH redox cycle that maintains adequate levels of reduced GSH. A high GSH/GSSG ratio is essential for protection against oxidative stress.

### Product Info

**Amount :** 200 Tests

**Storage condition :** Store at -20°C. Please refer to protocols.